

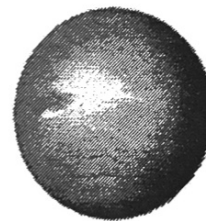
Name: \_\_\_\_\_

Teacher: \_\_\_\_\_

Algebra Pd: \_\_\_\_\_

\_\_\_\_\_  
Day      Month      Year

## WWP #12: Mixed Scientific Notation Problems



**Show all work. Final answers must be in scientific notation.**

1. The mass of a single atom of Carbon-12 is  $1.9927 \times 10^{-23}$  grams. What is the total mass of eighteen grams of Carbon-12?

2. Neptune is  $4.5 \times 10^9$  km away from the sun. If a solar vehicle from Neptune travels at a speed of 90 km/hour, how many hours will it take for the vehicle to reach the sun?

3. The speed of light is approximately  $6.71 \times 10^8$  miles per hour. How many miles will light travel in one minute?

4. The half-life of Uranium-234 is  $2.5 \times 10^5$  years. How many half-lives of Uranium-234 will occur in 1,500,000 years?